

## 2.3.1 OVERVIEW

- Essential function of display and printing processes
  - map 1-D scanned signal back to 2-D or 3-D sampled format
  - interpolate from sampled format to continuous-parameter form
    - spot profile of display or printing device
    - human visual system
- Display systems generate the image representation on a fixed device output surface.
- Printing systems generate the image representation on a separate medium.

## **2.3 DISPLAY AND PRINTING OF IMAGES**

1. Overview
2. General Model for Display and Printing Processes
3. Human Visual System
4. Quantization
5. Halftoning

# Display and Printing Technologies

- Display
  - cathode ray tube (CRT)
  - flat panel
    - matrix addressable
    - examples
      - liquid crystal
      - plasma panel

- Printing

- electrographic
- ink jet
- thermal
- pressure-sensitive microencapsulated dyes